#### 1/12

### FIG. 1a

naceucactgaaatatttuaggacgacgacgacgaeatattaagaaagaagaaataaagaagacacacgacacactataa Anchetic tiegganagangganaggectic cecagagic titcacecgatic tictic tages cycaagaaaccgcayiittiiyitticiigcaaiggibiciiimilliccibicgiliyyiicacciiiiiaaibiiciitibaf gtaga teaggittaa testa tsiteligasetsea itaegiba isa item issa itemaggaatsia iseggattiii ia tit Tigittiatittitegigggetiicgcaagaagaaictaitiegggtaitgiiciigiigiggaaaictiiegatit Incocas in tissus tous saccacate a tisus ica i tin in titus salutus icutium icutium iscais i sesaisc aggaagaaaaactsisgihaatsigitteaagagatteatttageattat tacaaggitgugusegciivagititsa isa TTTTGATGIACATTGIGGAGATTIGATGGGTTGCATGIGGGTCANATGITCTTGIAGATTTGTTTTTGTCGAAAAATIT ggatttttccacttthftgaacasingaictttmcigittgaaccaaaasttaitiggittgaacttaith ga imina itagina taaa ittigg itaggicig inaagaaica tina tinca icha fina imitgittaa igiacaaaaaca gegaa ittii tegiva taicta igaa geca teu im isecteectegaa tilegituga igaaaaaacaga tilegu isi isi s ingatiteacivitagigaa iaccceaciteaagaacggieciga iteaacieciciagiccicagga itiiagiaciact igitigo ibittogaadaga iggoigaaaninaa igtoiggittiogagotibboggitagagaa ittaciagaga kotga titithech icocancea isa iticiscis icaganisaaisaa Itsacinagagcaag icggim itisaga itsaa itsg tigittgiga itgitgitga itigititigicg timiga icittiga ggia itcogca imcaatyciga imciagicgi igt gca is itstas taacaaa iscaca fis tagaticius issa futitus se totus tiaccascacatis cesa tiutes ta tga ixtite ios iettim itgitta etteccitic itegcieccacia itica iteagaa ig iaggacg itgitega iegaa aagaactitteccgaciagaaigcaggiggcaaiciggaaicitctatiaiggggggaaciaciyiaatigggaggittiga ticabacaa ictabiaacabictabaabciactitocciitaaa icicaa ibacciitaaacboca iba ibbabacatiibaa TOCATE TITTE CASE TARATTE GE GE GE GETT GA CARA

#### 2/12

#### FIG. 1b

MGAGGRHSDPTTKDEQKKNP CTCCAACGGTECCTTACGCAAAGCCTCCATTCACACTCGGTGACATCAAGAAGGCCATT LORUPYAKPPFTLGDIKKAI CCACCACACTGCTTCGAGAGATCCGTCAGCCGTTCGTTCTCCTATGTCGTTTACGATCTC PPHOFERSUSRSFSYUUYDL GTCATTGTTTTCCTTCTCTACTACATTGCGACTTCTTACTTCCATCTGCTGCCATCCCCA IUFLLYYIATSYFHLLPSP TACTGCTACCTAGCTTGGCCCATTTACTGGGCTGTACAAGGCTGCGTTTGCACCGGAATC YCYLAHPIYHAUQGGUCTGI TEGETCATTGCCCATGAGTGTGCCCACCATGCGTTTCACCGGTTGCCTTGACGAC HUIAHECCHHĂFSDYGHLDD acacttegoctcatcetegactoteccetegtcgteccgtatttotcategaaatacaec TUGLILHSALLUPYESHKYS HRRHHSNTG & CERDEUFUPE CCAAAA TCCAGAGTCTCGTGGTACTCCAAATACTTGAACAATCCACTTGGCAGAGTCATC PKBRUBHYSKYLNNPLGRUI ACACTTGTGGTTACTCTTACTCTCGGTTGGCCTCTATACTTGCTGTTTAATGTCTCTGGC T L U U T L T L G H P L Y L L F N U S G ageccttacaaccettttecateccacttteacccatateetccaatatataateaccet RPYNRFACHFDPYGPIYNDR CACACACTTCAAATOTTCATCTCCCATGCTGGTATAATTGCTGCTGTATGTGTGCTTTAT ERLRIFISDAGIIAAUCULY COTOTTOTTTGGTCAAAGGGTTGGCTTGGCTGTTATGTGTTTTATGGGGTAGCGTTACTC RUALUKGLAHLUCUYGUPEL ATTGTCAACGGTTTCCTTGTTTTGATCACATTCCTTCAGCACACTCAGCCTTCGTTGCCG IUNGFLULITFLQHTHPSLP Cactatgattottocgagtgggactggctaaggggggctdttgcaactgtcgacagagat HYDS-SEHDHLRGALATUDR TATEGGETGCTAAATAAGGTGTTCCATAACATCACAGATACGCACGTGAOTCACCACOTT YCULNKUFHNITOTHUTHHL TTCTCAACGATGCCACATTACCATGCAATGGAGGCAACTAAGGCAATCAAGGCCGATACTG F S T M P H Y H A M E A T K A I K P I L CCCCAGTATTATCAGTTTGATGGAACCCCGTTTTACAAGGCGATGTGGAGGGAAGGCAAAG G Q Y Y Q F D G T P F Y K A M H R E A K Gaatetetetateterageeagaegaegtaeteeagaeagtetatteteetadaae ECTAMBDD BL S D K C A L H A K

## 3/12

# FIG. 1c

AACAAGTTOTGAAGCCGAATAACATGTGGTTAGTGAAAATGGCGTOTTCTTATTTTGTCC
N K F -

TATEGREATEGAGGAACATCATCATCTTTOTTTTTTTTTTTTATAAGATGCGTCCTTTGT TAGTGTATTCTCTGCATGTAATAAATAAACTTOTACCGGAAACGTTGTCTGTGTGGTC CGATTCTAGTTCTGCAATAAATTGTCAAGTTTAGTG





FIG. 2b

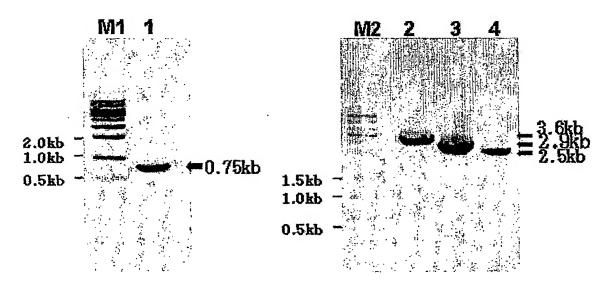


FIG. 3

5/12

FIG. 4a

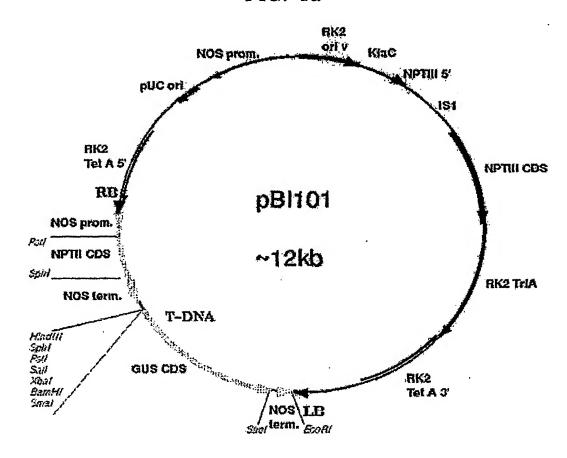
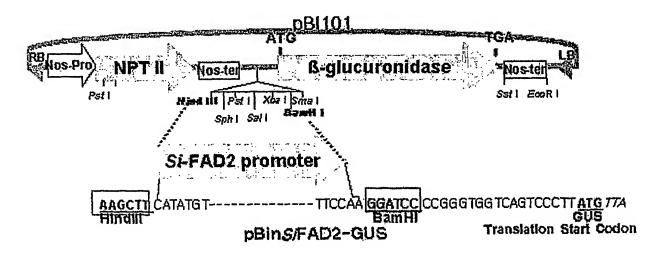


FIG. 4b



6/12

FIG. 4c

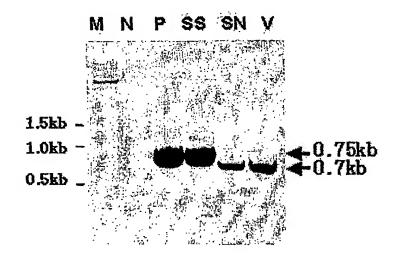
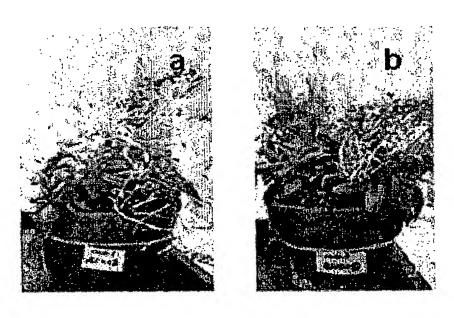


FIG. 5



7/12

FIG. 6

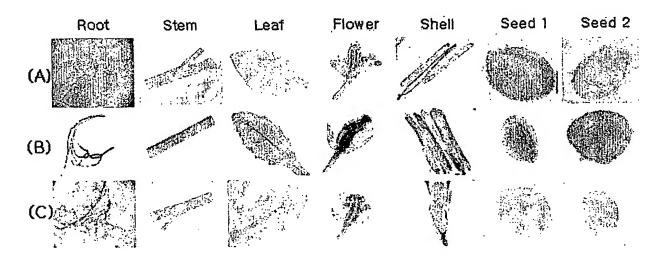
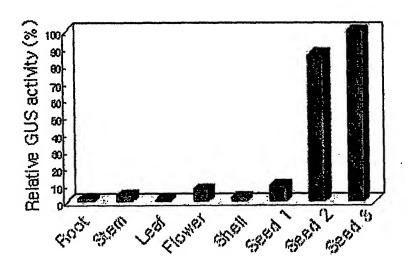


FIG. 7a



8/12

FIG. 7b

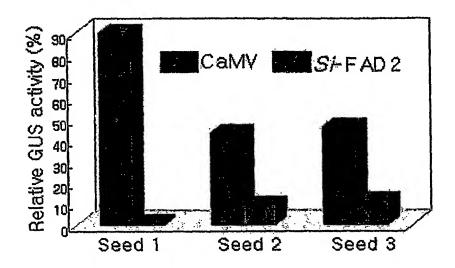
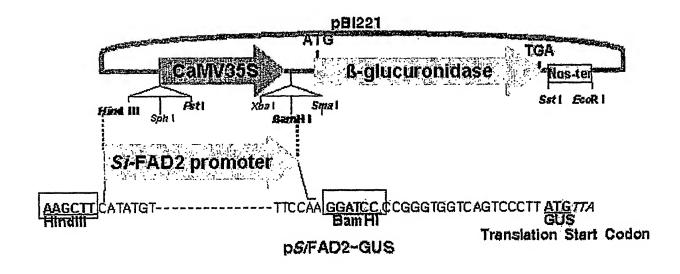


FIG. 8a



9/12

FIG. 8b

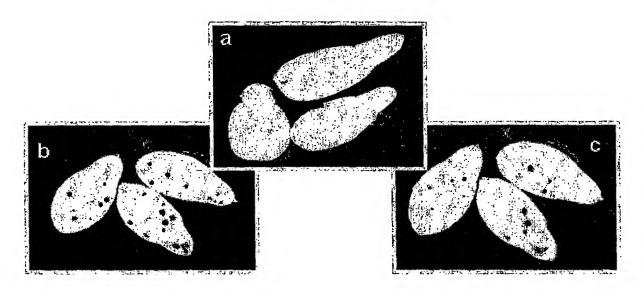
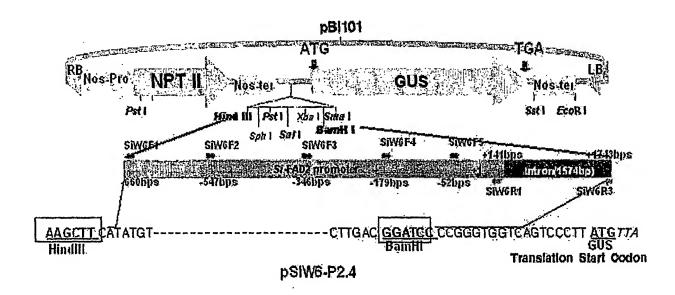


FIG. 9a



10/12

FIG. 9b

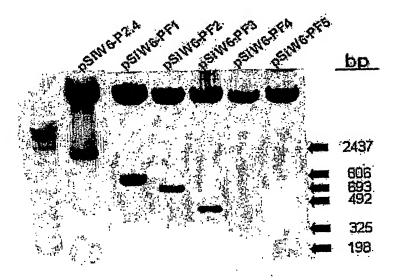


FIG. 10



# 11/12

# FIG. 11

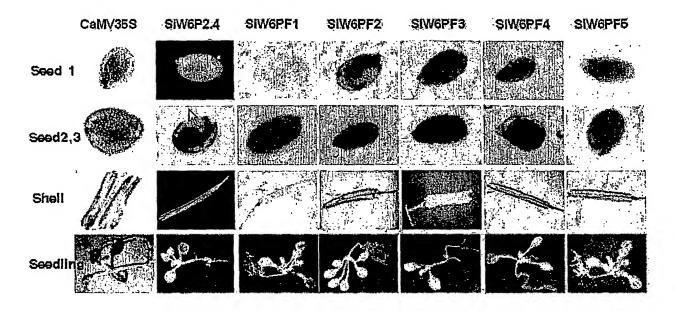
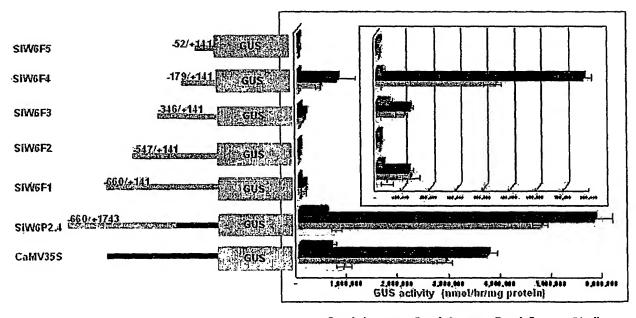


FIG. 12a



□ Seed 1 □ Seed 2 ■ Seed 3 ■ Shell

### 12/12

### FIG. 12b

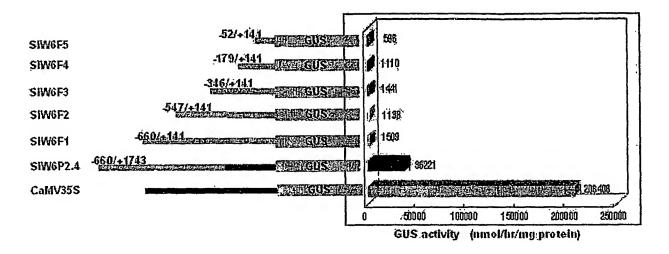


FIG. 13

-179 GGAATGTGCACACTCCATGTGGGCCAATGAGCGGATGACACGTGGCGGG CAACTTACCTCGTTACGTTGAGGCATGCATGAAAGGGGGATCTCTTGAGGTGGA GGGGTGGGGGGGGTTGGGGGG -53